

### **Amendments to the Claims:**

This listing of the claims will replace all prior versions, and listings, of claims in the application.

### **Listing of Claims:**

1. (Currently Amended) A method for performing a function on a selected portion of a signal, comprising:
  - marking a start frequency with a band marker;
  - marking a stop frequency with the band marker;
  - marking a center frequency located half way between the start frequency and the stop frequency, wherein the center frequency, the start frequency and the stop frequency are simultaneously marked by the band marker;
  - performing a mathematical operation on a bandwidth of the signal between the start frequency and the stop frequency; and,
  - displaying a numerical value representing a result of the mathematical operation.
  
2. (Previously Presented) A method as in claim 1 wherein the mathematical operation is one of the following:
  - band power representing a total amount of power of the signal within the bandwidth of the signal between the start frequency and the stop frequency;

band power density representing a density of power of the signal within the bandwidth of the signal between the start frequency and the stop frequency.

3. (Original) A method as in claim 1:

wherein the start frequency is marked with a left foot of the band marker, the left foot of the band marker being a vertical line; and,

wherein the stop frequency is marked with a right foot of the band marker, the right foot of the band marker being a vertical line.

4. (Currently Amended) A method as in claim 1:

wherein the start frequency is marked with a left foot of the band marker, the left foot of the band marker being a vertical line;

wherein the stop frequency is marked with a right foot of the band marker, the right foot of the band marker being a vertical line; and,

wherein a the center frequency ~~between the start frequency and the stop frequency~~ is indicated by a center diamond of the band marker.

5. (Original) A method as in claim 1 additionally comprising:

marking a second start frequency with a second band marker;

marking a second stop frequency with the second band marker; and,

performing a delta band function on a second bandwidth of the signal between the second start frequency and the second stop frequency along with

the bandwidth of the signal between the start frequency and the stop frequency.

6. (Original) A method as in claim 5 wherein the delta band function is one of the following:

delta band power;

delta band power density.

7. (Currently Amended) A user interface for an electronic instrument, comprising:

a display that displays a signal and a band marker, the band marker demarking a bandwidth of the signal by simultaneously marking a start frequency of the bandwidth, ~~and a stop frequency of the bandwidth~~ and a center frequency of the bandwidth;

wherein the electronic instrument performs a mathematical operation on the bandwidth of the signal between the start frequency and the stop frequency and displays a numerical value representing a result of the mathematical operation.

8. (Previously Presented) A user interface as in claim 7 wherein the function is one of the following:

band power representing a total amount of power of the signal within the bandwidth of the signal between the start frequency and the stop frequency;

band power density representing a density of power of the signal within the bandwidth of the signal between the start frequency and the stop frequency.

9. (Original) A user interface as in claim 7:

wherein the start frequency is marked with a left foot of the band marker, the left foot of the band marker being a vertical line; and,

wherein the stop frequency is marked with a right foot of the band marker, the right foot of the band marker being a vertical line.

10. (Currently Amended) A user interface as in claim 7:

wherein the start frequency is marked with a left foot of the band marker, the left foot of the band marker being a vertical line;

wherein the stop frequency is marked with a right foot of the band marker, the right foot of the band marker being a vertical line; and,

wherein a center frequency ~~between the start frequency and the stop frequency~~ is indicated by a center diamond of the band marker.

11. (Original) A user interface as in claim 7 wherein the display additionally displays a second band marker, the second band marker

demarking a second bandwidth of the signal by marking both a start frequency of the second bandwidth, and a stop frequency of the second bandwidth.

12. (Original) A user interface as in claim 7 wherein the display additionally displays a second band marker, the second band marker demarking a second bandwidth of the signal by marking both a start frequency of the second bandwidth, and a stop frequency of the second bandwidth;

wherein the electronic instrument performs a delta function on the second bandwidth of the signal vis-à-vis the bandwidth of the signal between the start frequency and the stop frequency.

13. (Original) A user interface as in claim 12 wherein the delta band function is one of the following:

delta band power;

delta band power density.

14. (Currently Amended) An electronic instrument, comprising:  
an input means for receiving selections from a user; and,  
a display means for displaying a signal and a band marker, the band marker demarking a bandwidth of the signal by simultaneously marking a

start frequency of the bandwidth, ~~and a stop frequency of the bandwidth~~ and a center frequency of the bandwidth;

wherein the electronic instrument performs a mathematical operation on the bandwidth of the signal between the start frequency and the stop frequency and displays a numerical value representing a result of the mathematical operation.

15. (Previously Presented) An electronic instrument as in claim 14 wherein the function is one of the following:

band power representing a total amount of power of the signal within the bandwidth of the signal between the start frequency and the stop frequency;

band power density representing a density of power of the signal within the bandwidth of the signal between the start frequency and the stop frequency.

16. (Original) An electronic instrument as in claim 14:

wherein the start frequency is marked with a left foot of the band marker, the left foot of the band marker being a vertical line; and,

wherein the stop frequency is marked with a right foot of the band marker, the right foot of the band marker being a vertical line.

17. (Currently Amended) An electronic instrument as in claim 14:

wherein the start frequency is marked with a left foot of the band marker, the left foot of the band marker being a vertical line;

wherein the stop frequency is marked with a right foot of the band marker, the right foot of the band marker being a vertical line; and,

wherein a the center frequency ~~between the start frequency and the stop frequency~~ is indicated by a center diamond of the band marker.

18. (Original) An electronic instrument as in claim 14 wherein the display means is additionally for displaying a second band marker, the second band marker demarking a second bandwidth of the signal by marking both a start frequency of the second bandwidth, and a stop frequency of the second bandwidth.

19. (Original) An electronic instrument as in claim 14 wherein the display means is additionally for displaying a second band marker, the second band marker demarking a second bandwidth of the signal by marking both a start frequency of the second bandwidth, and a stop frequency of the second bandwidth;

wherein the electronic instrument performs a delta function on the second bandwidth of the signal vis-à-vis the bandwidth of the signal between the start frequency and the stop frequency.

20. (Original) An electronic instrument as in claim 19 wherein the delta band function is one of the following:

delta band power;

delta band power density.